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L6: Entry 14 of 14

File: USPT

Dec 20, 1988

US-PAT-NO: 4792448

DOCUMENT-IDENTIFIER: US 4792448 A

TITLE: Generic zero order controlled drug delivery system

DATE-ISSUED: December 20, 1988

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ranade; Gautam R.	East Lyme	CT		

US-CL-CURRENT: 424/438; 424/467

CLAIMS:

I claim:

1. A device for the controlled release of one or more active substances into a fluid medium at a substantially constant rate which comprises said substance homogeneously dispersed, with or without one or more inert excipients, and contained substantially in the shape of a cylindrical tablet or bolus by means of an all-covering essentially impermeable wall or coating except for one or more strips of removed wall or coating from the side of said device.
2. A device of claim 1, wherein the side is flat and the top and bottom are convex.
3. A device of claim 2, wherein more than one strip of wall or coating is removed from the side of said device.
4. A device of claim 3, wherein the width of said removed strips can be the same or different from each other.
5. A device of claim 4, wherein the device is in the shape of a cylindrical tablet.
6. A device of claim 4, wherein the device is in the shape of a bolus.

7. A device of claim 1, wherein the substance is biologically active.

8. A device of claim 7, wherein the activity is to prevent or reduce odors in or emanating from the fluid medium.

9. A device of claim 7, wherein the substance has germicidal activity.

10. A device of claim 7, wherein the substance has pharmacological activity.

11. A bolus for oral administration into the reticulum or rumen of a ruminant mammal, said bolus being retained in said rumen or reticulum and releasing one or more active substances into the environment of said rumen or reticulum at a substantially constant rate over a prolonged period of time, which comprises said active agent or substances homogeneously dispersed in a matrix and contained by means of an all-covering essentially impermeable wall or coating except for one or more strips of removed wall or coating from the side of said bolus.

12. A bolus of claim 11, wherein the active substance is morantel or a pharmaceutically acceptable salt thereof in a polymer matrix.

13. A tablet for oral administration to a mammal which releases a pharmaceutically active substance into the fluid of the gastrointestinal tract of said mammal at a substantially constant rate over an appreciable time interval which comprises said substance homogeneously dispersed, with or without one or more pharmaceutically-acceptable excipients and contained by means of an all-covering impermeable wall or coating except for one or more strips of removed wall or coating from the side of said tablet.

14. A tablet of claim 13, wherein the substance is an antihypertensive.

15. A tablet of claim 14, wherein the substance is prazosin.

16. A tablet of claim 14, wherein the substance is nifedipine.
17. A tablet of claim 14, wherein the substance is trimazosin.
18. A tablet of claim 14, wherein the substance is doxazosin.
19. A tablet of claim 13, wherein the substance is an antianxiety agent.
20. A tablet of claim 19, wherein the substance is hydroxyzine.
21. A tablet of claim 19, wherein the substance is sertraline.
22. A tablet of claim 13, wherein the substance is a bronchodilator.
23. A tablet of claim 22, wherein the substance is pirbuterol.
24. A tablet of claim 13, wherein the substance is a blood-glucose lowering agent.
25. A tablet of claim 24, wherein the substance is glipizide.
26. A tablet of claim 13, wherein the substance is a cough or cold agent.
27. A tablet of claim 26, wherein the substance is brompheniramine maleate.
28. A tablet of claim 26, wherein the substance is chlorpheniramine maleate.
29. A tablet of claim 26, wherein the substance is phenylephrine hydrochloride.
30. A tablet of claim 26, wherein the substance is pseudoephedrine hydrochloride.
31. A tablet of claim 26, wherein the substance is

cetirizine.

32. A tablet of claim 26, wherein the substance is dextbrompheniramine maleate.

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Ranade; Gautam R.	East Lyme	CT		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Pfizer Inc.	New York	NY			02

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US-CL-CURRENT: 424/438; 424/467

FIELD-OF-SEARCH: 424/438, 424/468, 424/467, 604/890, 604/892, 427/3

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

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	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	<u>3851648</u>	December 1974	Brooke	128/260
<input type="checkbox"/>	<u>4690824</u>	September 1987	Powell et al.	424/468

ART-UNIT: 139

PRIMARY-EXAMINER: Lusignan; Michael

ABSTRACT:

A device for zero order releasing of biologically active substances into a fluid medium comprising a cylindrical tablet or bolus covered with an impermeable wall or coating from which strips of said wall or coating have been removed.

32 Claims, 12 Drawing figures